



大连宏亚泵业有限公司

Dalian Hongya pump industry co., Ltd

大连宏亚泵业有限公司成立于 2000 年，是一家集研发、设计、生产制造为一体的专业磁力泵生产的企业，公司拥有国际一流的磁力泵生产工艺，引进国际一流的水力模型和模块化结构，广泛应用于：精细化工、石油深加工，煤业深加工、医药行业、造纸等领域。

我公司生产的磁力泵技术成熟，安全可靠，易于维护，备品备件互换性强，大大减少了用户停车维护时间和库存成本压力。为客户提供工艺流程中关键泵的方案，并得到了广大用户的一致好评，如：山东新龙科技股份有限公司、吉林化纤集团、鲁南尧矿化工集团、四川永祥多晶硅、中国成达工程有限公司等。

完善的质量体系认证及先进的制造设备是我们产品质量的基础，丰富的行业经验是我们服务客户的保障。在绿色、安全、零泄漏、使用寿命方面，我们将竭诚为广大客户提供化工流体的整体解决方案！

欢迎五湖四海的朋友前来我公司参观考察！

Founded in 2000, it is a company that integrates r&d, design and production as an integrated professional magnetic pump, and the company is a first-class magnetic pump production process, introduces the international first-class hydraulic model and modular structure, which is widely used in the field of precision, oil and deep processing, coal industry, medicine industry, paper making and so on.

Our company's magnetic pump technology is mature, safe and reliable, easy to maintain, spare parts and spare parts, and greatly reduce the cost of parking maintenance and inventory cost. It provides customers with the solution of the key pump in the process process, and has been well received by the users, such as shandong xinlong technology co., LTD., jilin chemical fiber group, runan yanmining chemical group, sichuan yongxiang polysilicon, China chengda engineering co., LTD.

Perfect quality system certification and advanced manufacturing equipment are the basis of our product quality, and the rich industry experience is the guarantee of our service customers. In the green, safe, zero leakage and service life, we will wholeheartedly provide the overall solution for the chemical fluid for the customers.

Welcome to our company visit our company visit!

磁力泵工作原理

Working principle of magnetic pump

磁力泵是一种不存在动密封的无泄漏流体输送机械。主要针对叶片泵中的离心泵进行设计，通常由泵体、隔离套及连接部件组成能够承受压力的屏蔽密封腔体。在密封腔体的外部有一个旋转的永磁体，并通过磁场的作用，带动密封腔体内部的磁性转子部件同步旋转，而密封腔体内部的转子部件带动叶轮实现对流体的做功。由于由定子部件组成的屏蔽密封腔体不存在动密封，并且带动叶轮做功的旋转轴不穿出屏蔽密封腔体。从而保证了磁力泵的零泄漏、无污染。

Magnetic pump is a kind of non leakage fluid conveying machine without dynamic seal. It is mainly designed for the centrifugal pump in vane pump, which is usually composed of pump body, isolation sleeve and connecting parts to bear the pressure. There is a rotating permanent magnetic field on the outside of the seal chamber, which drives the magnetic rotor parts in the seal chamber to rotate synchronously through the function of magnetic field, while the rotor parts in the seal chamber drive the impeller to work on the fluid. There is no dynamic seal in the shielding seal cavity composed of stator components, and the rotating shaft driving the impeller to work does not penetrate the shielding seal cavity. So as to ensure zero leakage and no pollution of the magnetic pump.

产品设计标准 Product design standard

宏亚磁力泵执行美国石油协会 API685 标准，《石油、重化学及天然气工业用无密封式离心泵》
 Hongya magnetic pump is in accordance with API 685 standard of American Petroleum Institute, unsealed centrifugal pump for petroleum, heavy chemical and natural gas industry.

泵材质 Pump material

奥氏体不锈钢、双相钢、C4 钢、钛及钛合金、哈氏合金等。
 Austenitic stainless steel, duplex steel, C4 steel, titanium and titanium alloy, Hastelloy, etc.

磁性材料 Magnetic material

宏亚磁力耦合器磁性材料选用高性能的 2:17 级钐钴 (Sm2Go17)，该稀土合金最高可逆退磁温度 450°C，磁性稳定，可在长期高温和振动状态下永不退磁，且不发生锈蚀。
 The magnetic material of the macro sub magnetic coupler is 2:17-grade sm2go17. The maximum reversible demagnetization temperature of the rare earth alloy is 450 °C, the magnetic property is stable, it can never demagnetize under long-term high temperature and vibration state, and it will not rust.

隔离套 Isolation sleeve

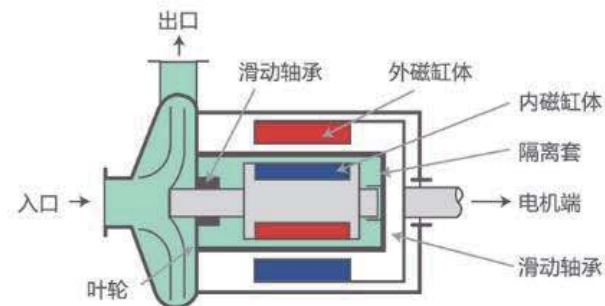
常规为单层，材质为 Hastelloy C-276，承压 2.5-4.0Mpa
 危险工况为双层，夹层安装监测和保护装置，双层保护更安全！
 Conventional single layer, Hastelloy C-276 material, pressure bearing 2.5-4.0mpa
 The dangerous working condition is double layer. The monitoring and protection device is installed in the interlayer. Double layer protection is safer!

轴承 Bearing

滑动轴承为无压烧结碳化硅，含量高于 99.99%，硬度高、耐磨性和韧性好，超抗腐蚀能力。
 滚动轴承采用 SKF, FAG 品牌轴承，油脂润滑，使用过程中无需加油。
 The sliding bearing is pressureless sintered silicon carbide with content higher than 99.99%. It has high hardness, good wear resistance, toughness and super corrosion resistance.
 The rolling bearing adopts SKF, FAG brand bearing, grease lubrication, no need to add oil during use.

泵轴 Pump shaft

泵轴采用新型螺旋键与叶轮和内磁缸连接，轴上无链接键，有效的提高了能量的传递，缩短了磁力泵启动后泵转子的自动平衡时间，最大程度的减少了滑动轴承因设备频繁启动造成的损坏，延长了泵的使用寿命，降低了因意外停机造成的停机和维护成本。
 The pump shaft is connected with the impeller and inner magnetic cylinder by a new type of screw key. There is no link key on the shaft, which effectively improves the energy transmission, shortens the automatic balance time of the pump rotor after the start of the magnetic pump, minimizes the damage of the sliding bearing caused by the frequent start of the equipment, prolongs the service life of the pump, and reduces the shutdown and maintenance costs caused by the unexpected shutdown.



较大的泵采用双流道泵体减少了轴向力和轴挠度，以最大限度的提高轴承的使用寿命，从而降低泵生命周期成本。

The larger pump USES double channel pump body to reduce axial force and axial deflection, in order to maximize the service life of the bearing, thus reducing the pump life cycle cost.

叶轮，我们可以提供可靠高效的多种叶轮选择应用于各种工况，降低泵在生命周期内的成本，高效可靠的 Rotar-key 叶轮驱动形式可以方便快捷的拆装降低了维护成本。

Impeller, we can provide a variety of reliable and efficient impeller choices for various working conditions, to reduce the cost of the pump in its life cycle. The efficient and reliable RotAR-key impeller drive form can be easily and quickly disassembled and installed, reducing the maintenance cost.

包括稀油润滑和无油润滑全面满足各种需求。主轴与叶轮、主轴与内磁缸连接形式均采用高效可靠的 Rotar-key 技术，能量传递更高效。轴上无任何键槽，大大降低了因频繁启动对滑动轴承的撞击而造成的意外停车从而降低了停机成本和维护成本。

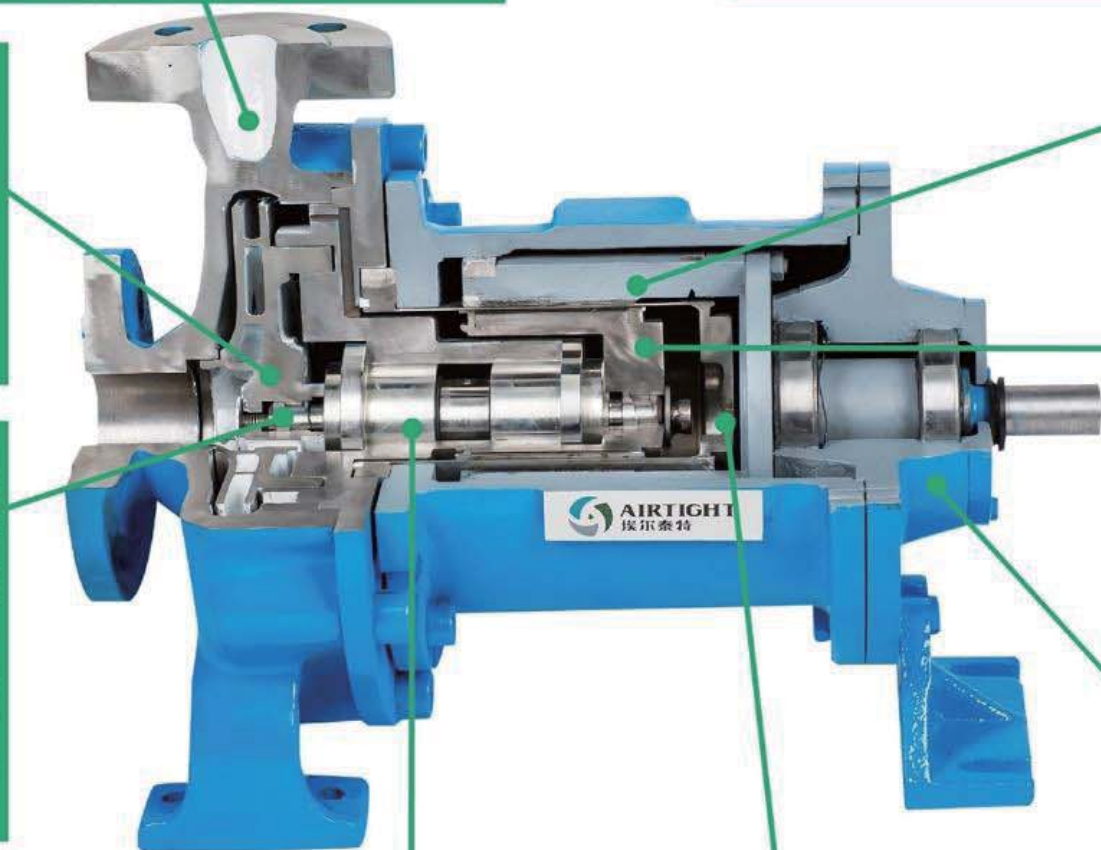
Spindle and impeller, spindle and internal magnetic cylinder. The connection forms are efficient and reliable Rotar-key technology, attending energy transfer. More efficient. There are no keyways on the shaft. Greatly reduced due to frequent start on sliding. Unexpected shutdown caused by bearing impact. This reduces downtime costs and maintenance costs.

滑动轴承材质为无压烧结碳化硅，硬度高，耐磨性能好，承受温度可达 1800°C，靠介质本身润滑，减少了泵轴在旋转过程中的阻力，提高泵做功的效率。

The sliding bearing is made of pressureless sintered silicon carbide with high hardness and good wear resistance. The bearing temperature can reach 1800 °C, lubricated by the medium itself, which reduces the resistance of the pump shaft in the process of rotation and improves the efficiency of the pump work.

优良的设计将泵在整个生命周期内的成本最小化

Good design minimizes the cost of the pump throughout its life cycle



外磁缸安装防爆环，多一重保护更安全。

The outer magnetic cylinder is equipped with explosion-proof ring, one more protection and more safety.

内磁缸材质为 2:17 的钕钴永磁体，承受温度高，可达 450°C 且具有高矫顽力的特征，在同极相接近时、长时间剧烈震动情况下也不会发生退磁现象，充分保证磁钢的使用寿命。

The inner magnetic cylinder is made of 2:17 samarium cobalt permanent magnet, which withstands high temperature, up to 450°C, and has the characteristics of high coercive. Demagnetization will not occur when the pole is close to each other or under the condition of long-term violent vibration, fully guaranteeing the service life of magnetic steel.

轴承箱体单元，可靠的，稳定的的轴承单元最大限度的减少意外停机，从而减少停机成本和维护成本。轴承单元

Bearing housing units, reliable, stable bearing units minimize unexpected downtime, thereby reducing downtime costs and maintenance costs. Bearing unit.

隔离套采用特殊的成型工艺，轴向上无缝隙，充分保证隔离套的密封性。加工精细，根据工况可选择多种透磁性高的材质。

The isolation sleeve adopts special forming technology, and there is no weld in axial direction, which fully guarantees the sealing processing of the isolation sleeve is fine. According to the working condition, a variety of materials with high permeability and magnetism can be selected.

MBH 系列

MBH series


执行标准
Executive standard

 符合DIN24256 / ISO2858 /
 API1685标准
 In accordance with DIN24256 /
 ISO2858 / API1685

应用范围 Application

广泛用于化工、石油化工、硝酸工业、硫酸工业、医药、纺织及核电站等行业。
 Widely used in chemical industry, petrochemical industry, nitric acid industry, sulfuric acid industry, medicine, textile, nuclear power station and other industries.

适用介质 Applicable medium

适合输送有腐蚀性、易燃、易爆、易汽化、有毒以及昂贵的介质。
 Suitable for conveying corrosive, flammable, explosive, vaporizable toxic and expensive media.

结构特点 Structural features

单级、单吸、悬臂结构。完全无泄露，所有密封点由静密封垫密封，通过磁性联轴器驱动。采用积木原理，结构紧凑，通用性强，后拉式拆装，维修方便。
 Single stage, single suction, cantilever structure. No leakage at all. All sealing points are sealed by static gasket and driven by magnetic coupling. With the principle of building blocks, the structure is compact, universal, and the back pull type disassembly and assembly is convenient for maintenance.

泵材质 Pump material

铸铁、碳钢、奥氏体不锈钢、钛及钛合金、哈氏合金等。
 Cast iron, carbon steel, austenitic stainless steel, titanium and titanium alloy, Hastelloy, etc.

性能范围 Performance range

口径/Diameter	DN25 ~ DN200	流量范围/Flow range	1 ~ 600m ³ /h
扬程范围/Head	~ 200m	温度范围/Temperature range	小于250°C/less than 250 °C
压力等级/Pressure	2.5Mpa	功率范围/Power range	至160KW/to 160KW

MSY 系列

MSY series



★此系列泵最大特点是高效
 泵必须汽蚀余量小
 This series of pumps is characterized
 by high efficiency and small NPSH

执行标准
Executive standard

 符合DIN24256 / ISO2858/
 API1610标准
 In accordance with DIN24256 /
 ISO2858 / API1610

应用范围 Application

广泛用于化工、石油化工、硝酸工业、硫酸工业、医药、纺织及核电站等行业。
 Widely used in chemical industry, petrochemical industry, nitric acid industry, sulfuric acid industry, medicine, textile, nuclear power station and other industries.

适用介质 Applicable medium

适合输送有腐蚀性、易燃、易爆、易汽化、有毒以及昂贵的介质。
 Suitable for conveying corrosive, flammable, explosive, vaporizable toxic and expensive media.

结构特点 Structural features

完全无泄露，所有密封点由静密封垫密封，通过磁性联轴器驱动。采用积木原理，结构紧凑，通用性强，后拉式拆装，维修方便。
 No leakage, all sealing points are sealed by static gasket, Drive by magnetic coupling. Using the building block principle, Compact structure, strong versatility, pull back disassembly, convenient maintenance.

泵材质 Pump material

铸铁、碳钢、304、316、304L、316L、904、904L、双相钢及钛合金、哈氏合金等。
 Cast iron, carbon steel, 304, 316, 304L, 316L, 904, 904L, duplex steel and titanium alloy, Hastelloy, etc.

性能范围 Performance range

口径/Diameter	DN25 ~ DN200	流量范围/Flow range	1 ~ 800m ³ /h
扬程范围/Head	~ 200m	温度范围/Temperature range	小于250°C/less than 250 °C
压力等级/Pressure	2.5Mpa	功率范围/Power range	至160KW/to 160KW

MBHZ 系列自吸式磁力泵 MBHZ series self-priming magnetic pump

应用范围及场合 Application scope and occasion

适合输送需自吸，有腐蚀性、易燃、易爆、有毒及价格昂贵的介质，最适用于卸车（包括汽车槽车和火车槽车），尤其卸酸碱（NaOH），绝对达到无泄漏。液氨使用此泵也是非常合适。It is suitable for transportation of corrosive, inflammable, explosive, toxic and expensive media. It is most suitable for unloading (including car tank car and train tank car), especially for unloading acid and alkali (NaOH), absolutely no leakage. This pump is also suitable for liquid ammonia.

结构特点 Structural features

单级、单吸、悬臂结构，靠磁性联轴器传动，完全无泄漏。最大吸程可达 8 米。Single stage, single suction, cantilever structure, driven by magnetic coupling, no leakage. Maximum suction up to 8M.

泵材质 Pump material

铸铁、碳钢、304、316、304L、316L、904、904L、双相钢及钛合金、哈氏合金等。Cast iron, carbon steel, 304, 316, 304L, 316L, 904, 904L, duplex steel and titanium alloy, Hastelloy, etc.

性能范围 Performance range

口径/Diameter	DN32 ~ DN100	流量范围/Flow range	2.5 ~ 200m ³ /h
扬程范围/Head	12.5-90m	温度范围/Temperature range	小于250°C/less than 250 °C
压力等级/Pressure	2.5Mpa	功率范围/Power range	至220KW/to 220KW

MDC 系列 MDC series

应用范围 Application

适合输送有腐蚀性、易燃、易爆、有毒及价格昂贵的介质。Suitable for conveying corrosive, flammable, explosive, toxic and expensive media.

结构特点 Structural features

单级、单吸、悬臂结构，无联轴器，结构紧凑，占地面积小。Single stage, single suction, cantilever structure, no coupling, compact structure, small floor area.

泵材质 Pump material

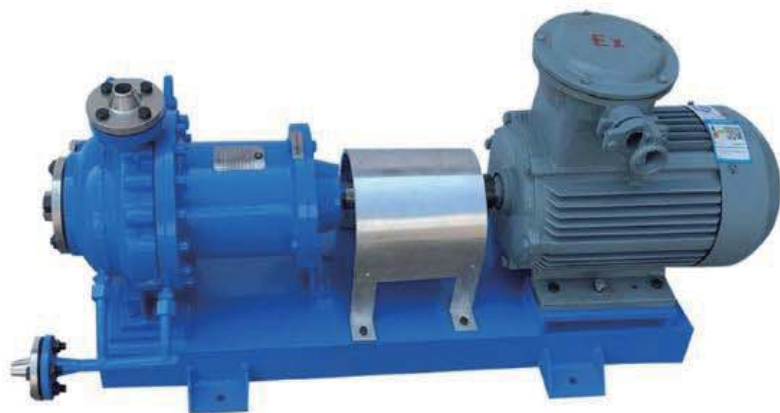
铸铁、碳钢、304、316、304L、316L、904、904L、双相钢及钛合金、哈氏合金等。Cast iron, carbon steel, 304, 316, 304L, 316L, 904, 904L, duplex steel and titanium alloy, Hastelloy, etc.

性能范围 Performance range

口径/Diameter	DN25 ~ DN100	流量范围/Flow range	2.5 ~ 300m ³ /h
扬程范围/Head	0-180m	温度范围/Temperature range	小于250°C/less than 250 °C
压力等级/Pressure	2.5Mpa	功率范围/Power range	至90KW/to 90KW

MBH-J 系列

MBH-J series


应用范围 Application

适合输送高温、易结晶、有毒、有害、易燃、易爆介质。
 Suitable for conveying high temperature, easy crystallization, toxic, harmful, inflammable and explosive media.

结构特点 Structural features

单级、单吸、悬臂结构，泵体和泵盖全夹套设计，满足多种工况。
 Single-stage, single suction, cantilever structure, pump body and pump cover full jacket design, meet a variety of working conditions.

泵材质 Pump material

铸铁、碳钢、304、316、304L、316L、904、904L、双相钢及钛合金、哈氏合金等。
 Cast iron, carbon steel, 304, 316, 304L, 316L, 904, 904L, duplex steel and titanium alloy, Hastelloy, etc.

性能范围 Performance range

口径/Diameter	DN25 ~ DN300	流量范围/Flow range	2.5 ~ 800m ³ /h
扬程范围/Head	0-200m	温度范围/Temperature range	小于250℃/less than 250 °C
压力等级/Pressure	5.0Mpa	功率范围/Power range	至160KW/to 160KW

MXL 系列

MXL series



MXL 小流量高扬程化工磁力泵，专门针对微小流量研发，稳定流量可低至 0.1m³/h，具有优异的汽蚀性能。

MXL chemical magnetic pump with small flow and high lift is specially developed for small flow. The stable flow can be as low as 0.1m³/h, with excellent cavitation performance.

特点 Characteristic

- 专门用于微小流量、高扬程规格
- 多级、单吸、卧式、底脚支撑、系统构件标准化
- 介质温度小于 220 °C 不需要任何冷却措施
- 采用加长段联轴器，检修时不需要移动电机
- 材质依需要提供
- Specially used for small flow and high lift specifications
- Multistage, single suction, horizontal, foot support, system component standardization
- No cooling measures are required when the medium temperature is less than 220 °C
- With the extension coupling, the motor does not need to be moved during maintenance
- Materials to be provided as required

适用输送介质 Suitable transportation medium

酸、碱、烯烃类、溶剂，有毒、危险性、易燃易爆、腐蚀性、贵重液体。
 Acid, alkali, alkene, solvent, toxic, dangerous, flammable, explosive, corrosive, precious liquid.

技术参数 Technical parameter

出口直径/Outlet diameter	DN15/DN20/DN25
流量/Flow	0 ~ 0.1 ~ 0.5 ~ 1.0 ~ 1.5 ~ 12m ³ / h
扬程/Head	~200m
必需汽蚀余量/NPSHr	0.2 ~ 6 m
温度/Temperature	-80 ~ 220 °C
压力等级/Pressure	~25Mpa

MSL 系列

MSL series



MSL 小流量高扬程化工磁力泵，专门针对微小流量研发，稳定流量可低至 0.1m³/h，具有优异的汽蚀性能。

MSL chemical magnetic pump with small flow and high lift is specially developed for small flow. The stable flow can be as low as 0.1m³/h, with excellent cavitation performance.

特点 Characteristic

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- Materials to be provided as required

适用输送介质 Suitable transportation medium

酸、碱、烯烃类、溶剂，有毒、危险性、易燃易爆、腐蚀性、贵重液体
 Acid, alkali, alkene, solvent, toxic, dangerous, flammable, explosive, corrosive, precious liquid.

技术参数 Technical parameter

出口直径/Outlet diameter	DN15/DN20/DN25
流量/Flow	0 ~ 0.1 ~ 0.5 ~ 1.0 ~ 1.5 ~ 5m ³ / h
扬程/Head	~200m
必需汽蚀余量/NPSHr	0.2 ~ 1 m
温度/Temperature	-80 ~ 220 °C
压力等级/Pressure	~ 25Mpa

MSE 系列

MSE series



MSE 高温型化工磁力泵专门用于输送清洁的，温度又高，又易燃易爆有毒介质。

MSE high temperature chemical magnetic pump is specially used to transport clean, high temperature, flammable, explosive and toxic media.

结构特点 Structural features

- 单级、单吸、中间支撑，轴承箱体采用水冷结构
- 采用加长段联轴器，检修时不用动电机
- 材质依据输送介质选用适合的
- Single stage, single suction, intermediate support, bearing box adopts water-cooling structure
- The extension coupling is used, and the motor is not used for maintenance
- The material shall be suitable according to the conveying medium

适用输送 Suitable for transportation

有毒、危险性、易燃易爆、酸、碱、烯烃类、溶剂、传热液体，腐蚀性、贵重液体等。
 Toxic, dangerous, flammable and explosive, acid, alkali, alkene, solvent, heat transfer liquid, corrosive, precious liquid, etc.

性能范围 Performance range

出口直径/Outlet diameter	DN25 ~ DN500
流量/Flow	0 ~ 1800 m ³ / h
扬程/Head	~ 300m
温度/Temperature	-80 ~ 450 °C
压力等级/Pressure	~ 5Mpa
功率/Power	可达400KW / up to 400KW

MBS 渣浆式磁力泵
MBS slurry magnetic pump


MBS渣浆式磁力泵专门用于输送含大量颗粒的、又易燃易爆有毒介质，叶轮和泵体、泵盖均采用耐磨耐腐蚀材料制作，采用准确的控制，保证磁力驱动部分介质干净。

Mbhp slag slurry type magnetic pump is specially used to transport a large number of particles, flammable, explosive and toxic media. The impeller, pump body and pump cover are made of wear-resistant and corrosion-resistant materials, and accurate control is adopted to ensure that the media in the magnetic drive part is clean.

特点 Characteristic

- 单级、单吸、底脚支撑，外接换热器、补液系统、监测系统、系统构件标准化
- 根据介质含颗粒情况可采用开式和闭式两种水力部件，水力部件特殊处理，延长磨蚀周期，需外接清洁组分的介质引入转子腔
- 采用加长段联轴器，检修时不需要移动电机
- Single stage, single suction, foot support, external heat exchanger, liquid replenishing system, monitoring system, system component standardization
- Two types of hydraulic components, open type and closed type, can be used according to the condition of medium containing particles. The hydraulic components are specially treated to prolong the abrasion period. The medium to be externally connected with cleaning components is introduced into the rotor cavity
- With the extension coupling, the motor does not need to be moved during maintenance

适用输送含有颗粒的介质 Suitable for conveying medium containing particles

有毒、危险性、易燃易爆、酸、碱、烯烃类、溶剂、传热液体、腐蚀性、贵重液体。
 Toxic, dangerous, flammable and explosive, acid, alkali, alkene, solvent, heat transfer liquid, corrosive and precious liquid.

性能范围 Performance range

出口直径/Outlet diameter	DN25 ~ DN400
流量/Flow	0 ~ 1000 m ³ / h
扬程/Head	~ 200m
温度/Temperature	-80 ~ 150 °C
压力等级/Pressure	~ 2.5Mpa

MSK 渣浆磁力泵
MSK high temperature slag slurry magnetic pump


MSK 渣浆磁力泵专门用于输送粘度大，停车后有凝固的液体，过流部件均采用耐磨耐腐蚀材料制作。

MSK slag slurry magnetic pump is specially used to transport the liquid with high viscosity and solidification after shutdown. The overflow parts are made of wear-resistant and corrosion-resistant materials.


结构特点 Structural features

- 单级、单吸、开式叶轮，泵体带有前衬板
- 采用加长段联轴器，检修时方便，电机可以不动
- Single stage, single suction, open impeller, pump body with front liner
- Adopt the extension coupling, convenient for maintenance, and the motor can not move

适用输送易凝固的介质 Suitable for conveying easily solidified media

有毒、危险性、易燃易爆、酸、碱、烯烃类、溶剂、传热液体、腐蚀性、贵重液体。
 Toxic, dangerous, flammable and explosive, acid, alkali, alkene, solvent, heat transfer liquid, corrosive and precious liquid.

性能范围 Performance range

出口直径/Outlet diameter	DN25 ~ DN400
流量/Flow	0 ~ 1500 m ³ / h
扬程/Head	~ 250m
温度/Temperature	-80 ~ 450 °C
压力等级/Pressure	~ 5Mpa

MES 高温渣浆磁力泵 MES high temperature slag slurry magnetic pump


MES高温渣浆磁力泵专门用于输送含大量颗粒的,温度又高,又易燃易爆有毒介质,过流部件均采用耐磨耐腐材料制作。

MES high temperature slag slurry magnetic pump is specially used to transport the toxic medium with a large number of particles, high temperature, inflammable, explosive, and overflow parts are made of wear-resistant and corrosion-resistant materials.

特点 Characteristic

- 单级、单吸、中间支撑,外接换热器、补液系统、监测系统
- 根据介质含颗粒浓度大小,选用开式和闭式叶轮,体盖轮采用特殊合金制作,延长零部件使用周期。接入清洁组分的介质引入转子腔,保证磁力驱动部分清洁
- 采用加长段联轴器,检修时方便,电机可以不动
- Single stage, single suction, intermediate support, external heat exchanger, liquid replenishing system and monitoring system
- According to the particle concentration of the medium, open and closed impellers are selected, and the body cover wheel is made of special alloy to extend the service life of parts. The medium connected with the cleaning component is introduced into the rotor cavity to ensure that the magnetic drive part is clean
- Adopt the extension coupling, convenient for maintenance, and the motor can not move

适用输送含有颗粒的介质 Suitable for conveying medium containing particles

有毒、危险性、易燃易爆、酸、碱、烯烃类、溶剂、传热液体、腐蚀性、贵重液体。
 Toxic, dangerous, flammable and explosive, acid, alkali, alkene, solvent, heat transfer liquid, corrosive and precious liquid.

性能范围 Performance range

出口直径/Outlet diameter	DN25 ~ DN400
流量/Flow	0 ~ 1500 m ³ / h
扬程/Head	~ 250m
温度/Temperature	-80 ~ 450 °C
压力等级/Pressure	~ 5Mpa

MTMC 系列双壳体液氨磁力泵

适用介质

液氨、无水氟化氢、氯化氢、液氨、氯硅烷类、四氯化铁、甲炔氢化物、二硫化碳、炬类等。

典型应用

特别适合从不能或无法在底部开口的容器中抽取介质,从密闭容器中抽取介质。

材质

根据输送介质需要提供。

特点

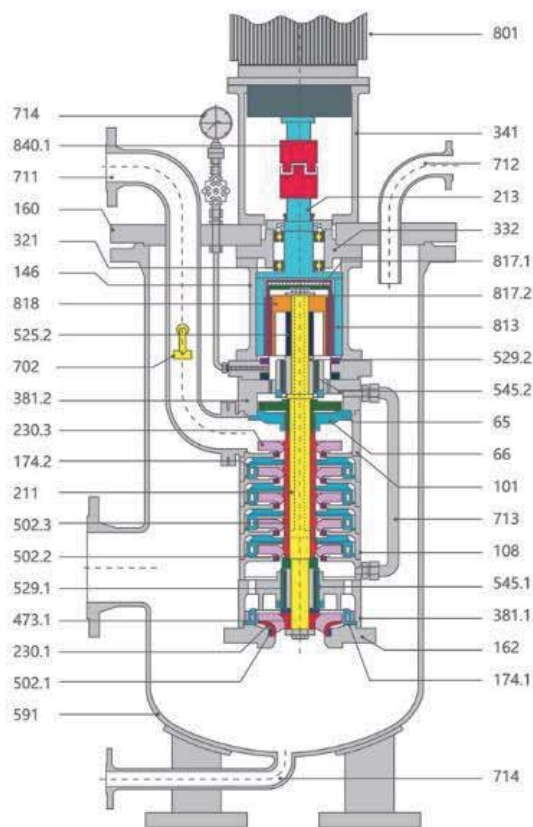
- 符合API685 SH/T3148标准。
- 泵头配有单级和多级两种欧洲水力模型,多级泵配有两组水力部件。整个泵优秀佳工况范围广。为确保安全,防止泵在很小流量甚至零流量下运行,在泵内可设置最小内部回流。
- 本质安全设计、全面优化升级:采用内外双层隔离套密封结构,可实现单层隔离套泄漏报警,实现多重安全保护,并且可依据需要采用整体全封闭设计,确保极限情况下介质始终零泄漏。密封元件隔离套采用哈氏合金材料特殊成型工艺制成,充分保证隔离套的密,充分保证隔离套耐腐蚀承压磁性材料选用优质的影钻合金,不可逆退,磁温度为450°C,充分保证使用寿命大于20年。
- 滑动轴承采用晶体碳化硅材料,碳化硅含量大于99%,具有化学性质稳定、高强、高韧性、高耐磨性,完全适合在液氨等高危特殊介质中使用。
- 采用自润滑免维护滚动轴承支撑液下传动轴,轴承品牌SKF或NSK。
- 可选择配备变频器调节泵运行,配置运转保护器、泄漏压力监控等安全设施。

技术参数

出口直径	DN15 ~ DN250	扬程	~ 300m
必需汽蚀余量	0.2 ~ 4 m	温度	- 40 ~ 150 °C
压力等级	~ 6.3MPa	功率	~ 90KW

结构更合理 运行更可靠 使用更便捷

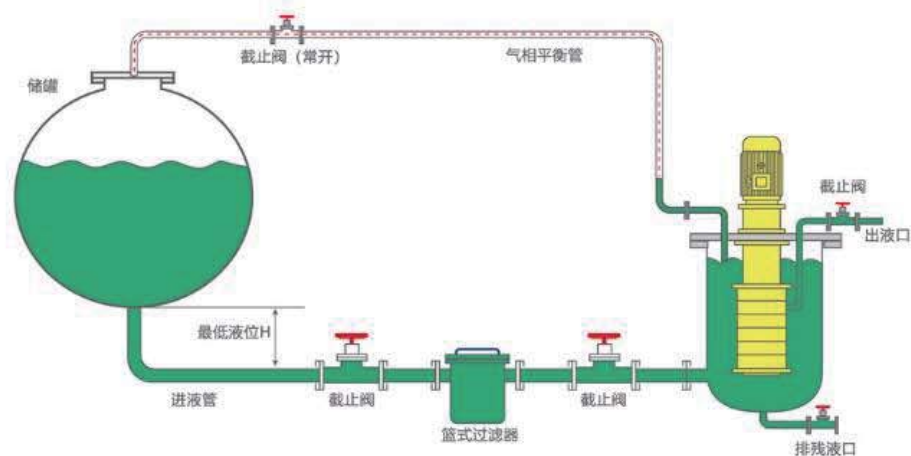
剖面图



零件表

零件号	名称	零件号	名称
65	平衡盘	529.2	滑动轴承套
66	平衡板	545.1	滑动轴承组件
101	出口段	545.2	滑动轴承组件
108	中段壳体	591	外壳体
146	连接体	702	内部回流孔板
160	法兰板	711	出液管
162	吸入盖	712	平衡管、备用管
174.1	首级导叶	713	回流管
174.2	导叶	714	排残液管
211	泵轴	801	电机
213	驱动轴	813	外磁缸体组件
230.1	首级叶轮	817.1	外隔离套组件
230.2	次级叶轮	817.2	内隔离套组件
230.3	叶轮	818	内磁钢体组件
321.1	滚动轴承	840	联轴器
332	轴承架	502.1	吸入盖口环
341	电机支架	502.2	导叶口环
381.1	轴承体	502.3	中段壳体口环
381.2	轴承体	525.2	轴套
473.1	推力盘组件	529.1	滑动轴承套

安装示意图



- 泵外壳体（缓冲罐）的进口与容器的出液管路连通
- 根据介质情况洁净与否配备蓝式过滤器，设置单路或双路
- 泵与各容器间的气相、液相在管路上通过相应的阀门控制实现独立操作
- 最低液位差H的确定（建议以容器排空时液位为基准线，确保在应急工况下泵自行抽空容器内介质） $H \geq$ 泵的必需汽蚀余量（m）+ 进口管路损失（m）+ 安全余量0.5（m）
- 建议设置流量计对泵流量进行监测，确保泵在规定流量范围内运行

泵头组件



磁力泵配件



滑动轴承组、推力盘、轴套



内磁缸体



隔离泵



宏亞泵業追求卓越，勇于创新，
以精益求精的态度为您的企业生产保驾护航！